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MEMORANDUM FOR: Deputy Director (Support)

SUBJECT: Air Conditioning Equipment for the Headquarters
Signal Center

1. A survey of the air conditioning equipment in the Signal Center discloses that one of the four 5-ton cooling units located therein must be replaced.

2. The Signal Center's electrical equipment which is located in Wing 2, Tempo I Building, draws approximately 27 kilowatts of power, a major portion of which is dissipated in heat at the rate of 150,000 to 160,000 BTU's per hour during the course of the Center's 24 hour-a-day, 7 day-a-week operating schedule.

3. During the summer months, when the existing cooling system has failed to function properly, temperature readings of between 110 and 115 degrees Fahrenheit have been recorded. The temperatures of this intensity have been found to have a profound adverse effect on the functioning of the Center's delicate equipment. Specifically, under these conditions, the oil-coated tapes used in the operation of the teletype machines become sticky, causing the transmitter heads to jam. For the efficient operation of these machines, room temperatures should not exceed 80 degrees Fahrenheit; however, maintenance of temperatures within this tolerance is impossible without the maximum use of the four cooling units.

4. The particular unit in need of replacement is over six years old. Due to the sustained use to which it has been devoted, it has been the subject of frequent breakdowns and the cause of overloading the remaining three units. While ordinarily the Center's requirements could be met by replacing this particular 5-ton unit with one of similar size, the Center advises that in the very near future additional electrical equipment will be installed which will substantially increase the BTU output beyond 160,000. Under these circumstances, replacement of the 5-ton unit by one of 7½-ton capacity is necessary. It is only through the use of equipment of this size that satisfactory temperature and humidity controls can be maintained so as to ensure the efficient and continuous operation of the Center's transmitting equipment.

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5. In view of the conditions cited above, it is believed that the procurement of the proposed unit is authorized under the provisions of 40 U.S.C.A. Sec. 317; therefore, it is recommended that one 7½-ton cooling unit be provided for installation by PBS Group Forces in the Signal Center. The estimated cost of the procurement is \$2,000., including installation.

JAMES A. GARRISON
Director of Logistics

CONCURRENCES:

25X1A


Comptroller

14 FEB 1956

Date

25X1A

SIGNED

Asst. General Counsel

FEB 13 1956

Date

The recommendation in paragraph 5
is approved:

FEB 15 1956

Date

25X1A

SIGNED

Acting ~~L. E. WHITE~~
Deputy Director
(Support)

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